

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

DIVISION OF MATERIALS AND TESTS
6601 CENTENNIAL BLVD.
NASHVILLE, TENNESSEE 37243-0360

Precast Inspection Checklist Quality Audit Checklist

		D	ateTime	
Pro	oducer Location	on	Region	
Plant Representative Plant Manager				
Plai	nt Address			
Pho	one/Email			
Reg	gional M&T Inspector	HQ M&T Inspector		
	Gel	neral Information		
1.	Are there deficiencies noted on the last Re	egion Inspection Report?	Yes □	No □
2.	Are there deficiencies noted on the last He	Q Audit?	Yes □	No □
3.	Are there deficiencies noted on the last audit performed by certifying agency?		gency?Yes □	No □
4.	Is previous precast inspection checklist re	adily available?	Yes □	No □
5.	Are deficiencies from previous audits or inspections recurring?			No □
6.	ACPA / NPCA / PCI Certification (circle or	ne) Expiration Date:		
7.	List all TDOT products made at facility (ca	ategory and type):		
8.	Is the plant certified to produce each of the	ese products?	Yes □	 No □
9.	According to which of the following are pro-	oducts being manufactured?		
	a. TDOT Standard Drawing		Yes □	No □
	b. Approved Alternate Drawing		Yes □	No □
	c. Contract Plans		Yes □	No □
	d. ASTM/AASHTO Specifications		Yes □	No □
Cor	mments:			

	Materials				
1.	Check materials against approved mix design (ask for material delivery tickets):				
	Cement Fly Ash				
	GGBFS Chemical Admixtures				
	Coarse Aggregate Fine Aggregate				
2.	Is documentation of aggregate properties (i.e. specific gravity and absorp	otion) readily available	?		
		Yes □	No □		
3.	Is steel used at the plant on the Producer List and mill certs readily available.	able?Yes □	No □		
4.	Does the plant use drawn down wire?	Yes □	No □		
5.	If yes, are certs readily available?	Yes □	No □		
6.	Does Plant use municipal or non-municipal water?N	lunicipal □ Non-mun	icipal 🗆		
7.	If non-municipal water, are test records kept on file?	Yes □	No □		
Co	omments:				
-					
	Quality Control Program				
1.	Is Quality Control Manual readily available?	Yes □	No □		
2.			No □		
3.					
	a. TDOT/ACI Level 1 Expiration Date:				
	b. TDOT Level 2 Expiration Date:				
4.	·				
	a. TDOT/ACI Level 1 Expiration Date:				
	b. TDOT Level 2 Expiration Date:				
5.	·				
	a. TDOT/ACI Level 1 Expiration Date:				
	b. TDOT Level 2 Expiration Date:				
	c. TDOT Level 3 Expiration Date (if applicable):				
	d. PE License # & Expiration (if applicable):				
6.					
٠.	a. Pre-Pour	•	No □		
	b. During		No 🗆		
	c. Post-Pour_		No 🗆		
7	Are gradations on aggregate being performed at least once per month?		No 🗆		
١.	The gradations on aggregate being periornied at least once per months.	1 €9 ⊔	INO 🗆		

			Laborato	ory Equipme	ent		
1.	All lab	equi	pment easily fits in space and is ac	cessible		Yes □	No □
	Scoop)		4"x8" cyli	nder molds	🗆	
	Samp	le red	duction equipment 🗆	Square b	lade shovel		
	Slump	con	e with base □	Pan			
	Tampi	ing ro	od 🗆	Thermom	neters		
	Air me	eter w	vith case □	Wheelba	rrow		
2.	Space	is flo	pored, roofed, sealed inside, weath	er-tight, and	furnished with electrici	ty <u></u> Yes □	No □
3.	Labora	atory	equipped with heat source capable	e of maintain	ing a temperature of 23	30°F +/- 9°F?	
		a.	Oven				
		b.	Stovetop				
		C.	Hot Plate				
4.			e lights, electrical outlets, and HVA	•			No □
5.			g capacity, 0.2% sensitivity, 0.5% a				No □
6.			0 lbs capacity, 0.2% sensitivity, 0.5				No □
7.	Appro	priate	e size and mesh screens are availa	ble to perfor	m gradations	Yes □	No □
	Coars	e Se	<u>ries</u>	Fine S	<u>Series</u>		
	2"			3/8"			
	1 ½"			#4			
	1"			#8			
	3/4"			#16			
	1/2"			#30			
	3/8"			#50			
	#4			#100			
	#8			#200			
	Tray			Pan			
8.	Mecha	anica	I shaker (Coarse Aggregate)			Yes □	No □
9.	Mecha	anica	l shaker (Fine Aggregate)			Yes □	No □
10.	Adequate and suitable water supply is available to perform wash tests in accordance with AASHTO						
	T-11,	if ned	essary.			Yes □	No □
Co	mment	ts: _					

		Testing Equipment			
1.	Is facility c	ertifying products for acceptance?	Yes □	No □	
2.		If yes, has the following equipment been calibrated within the last 12 months?			
		ression Machine	Yes □	No □	
		e Calibrated:			
	b. Three-	Edge Bearing	Yes □	No □	
		e Calibrated:			
Со	mments: _				
	-				
		Concrete Batching/Central Mixing Plant			
1.	If facility ba	atches its own concrete,			
	a.	Have the scales, weighing devices, and/or metering devices been calibr	ated withir	n the	
		last 6 months?	_Yes □	No □	
		i. Date(s) Calibrated:			
	b.	Chemical admixture dispensers calibrated within the last 12 months?	Yes □	No □	
		i. Date Calibrated:			
	c.	If using aggregate moisture probes, is accuracy verified with AASTHO T	-255 weel	kly?	
			Yes □	No 🗆	
	d.	Stockpile maintenance			
		Labeled	Yes □	No □	
		Overflowing	Yes □	No □	
		Partitions	Yes □	No □	
		• Coned	Yes □	No □	
		Segregated	Yes □	No □	
		Blending	Yes □	No □	
2.	If using cor	ncrete from RM plant, expiration date of NRMCA certification:			
Со	mments: _				

	Mix Design					
1.	Are all products used in approved mix design still on Producer List or QPL?					
	a. Cement	Yes □	ı	No □		
	b. Fly Ash		ı	No □		
	c. GGBFS	Yes □	ı	No □		
	d. Admixtures	Yes □	ı	No ⊏		
	e. Coarse Aggregate	Yes □	1	No ⊏		
	f. Fine Aggregate	Yes □	ı	No □		
2.	Is there a mix design for each type of product being produced?	Yes □	ı	No 🗆		
	Acceptance Testing					
1.	Are the following acceptance tests being performed at minimum frequencies listed in SOP 5-3?					
	a. Compressive Strength	Yes □	ı	No □		
	b. Absorption	Yes □	ı	No □		
	c. D-Load	Yes □	ı	No □		
	d. Ultimate Load	Yes □	ı	No □		
2.	Are daily reports documenting type/quantity of product made each day available	?Yes 🗆	1	No □		
	a. Do daily reports contain all acceptance test results?	Yes □	ı	No □		
	b. Do daily reports contain inspection of dimensional tolerances?	Yes □	ı	No □		
3.	Are acceptable products marked by stamp, etch, or label?			No 🗆		
	Category 1 & 2 Category 3					
	Date of Manufacture Date of Manufacture					
	AASHTO/ASTM Designation/Class Diameter					
	TDOT Standard Drawing # AASHTO/ASTM Designation	on/Class				
	Approved Alternate Drawing # Plant's Unique Stamp					
	Project/Contract # NPCA/ACPA/PCI Stamp					
	Plant's Unique Stamp					
	NPCA/ACPA/PCI Stamp					
Со	omments:					

	1	Date	Time
Producer Location			Region
Plant Representative	Plant Manager		
Plant Address			
Phone/Email			
Regional M&T Inspector	HQ M&T Inspector _		
Discussion	on of Findings		
Discuss summary of findings with plant representa	tive.		
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
TDOT Auditor Signature			
Plant Representative Signature			